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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,695	04/13/2006	Joachim Bamberg	4937/PCT	1818
21553 7590 09/12/2008 FASSE PATENT ATTORNEYS, P.A.			EXAMINER	
P.O. BOX 726		•	THOMAS, ALEXANDER S	
HAMPDEN, ME 04444-0726			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			09/12/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/575.695 BAMBERG ET AL Office Action Summary Examiner Art Unit Alexander Thomas 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 01 August 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 25-46 is/are pending in the application. 4a) Of the above claim(s) 32-39 is/are withdrawn from consideration. 5) Claim(s) 25-31,40,41 and 44 is/are allowed. 6) Claim(s) 42,43,45,46 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/06) Paper No(s)/Mail Date \_

5) Notice of Informal Patent Application

6) Other:

Application/Control Number: 10/575,695 Page 2

Art Unit: 1794

#### DETAILED ACTION

#### Drawings

The drawings filed 4/13/06 have been received and are approved.

#### Information Disclosure Statement

 The foreign references previously not considered have been considered and cited on the attached PTO-892

# Specification

 The previous objection to the specification has been overcome in view of applicant's arguments in the response filed 8/01/08. The amendment filed 2/15/08 which included amendments to the specification has been received and has been entered.

# Claim Objections

 The previous objection to claims 25 and 30 has been overcome in view of applicant's arguments in the response filed 8/01/08.

# Claim Rejections - 35 USC § 112

- The previous rejection of claim 41 under 35 USC 112 has been overcome in view of applicant's arguments set forth in the response filed 8/01/08.
- 6. Claim 42 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no original disclosure directed to "weld"

Application/Control Number: 10/575,695 Page 3

Art Unit: 1794

joints along" the annular surfaces of successive discs as is now claimed. Furthermore, Figure 8 of the application shows a cross-sectional view of the welded final product, i.e. the "composite material" according to the invention, and there is no joint structure shown between the successive discs

7. Claims 43, 45 and 46 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no original disclosure that supports the bottom of the claimed range of "at least four" successive discs. The specification is directed to a plurality of discs, which supports the upper part of the claimed range, and the specification supports six successive discs as shown in Figure 6, but there is no support for the bottom part of the range of "four" successive discs.

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Keck 5,431,984 in view of Ress et al 6,261,699. The primary reference comprises a stack of discs 10 each disc comprising a metal matrix material reinforced with a fiber placed in a groove in the matrix material, said grooves and fibers being spaced radially outwardly.

Application/Control Number: 10/575,695

Art Unit: 1794

from said inner disc edge and spaced from outer disc edge; see Figures 1, 2, 7A and 7B, column 3, lines 16-33, and column 4, lines 8-14. However, the primary reference does not disclose four successive discs wherein the grooves and fibers extending to two different radial dimensions in alternating succession. The secondary reference discloses an article similar to that of the primary reference, namely a metal matrix material reinforced with a high strength fiber wherein the fibers extend to two different radial dimensions in alternating succession for use at high rotational speeds; see Figure 12. It would have been obvious to one of ordinary skill in the art to provide the product of the primary reference with fibers of four successive discs extending to two different radial dimensions in alternating succession in view of the teachings in the secondary reference to provide a final product that is capable of operating at high rotational speeds.

## Allowable Subject Matter

10. Claims 25-31, 40, 41 and 44 are allowed.

#### Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Application/Control Number: 10/575,695

Art Unit: 1794

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Thomas whose telephone number is 571-272-1502. The examiner can normally be reached on 6:30-4:00 M-THUR.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Alexander Thomas/ Primary Examiner Art Unit 1794 Application/Control Number: 10/575,695

Page 6

Art Unit: 1794